



TREATING HIGH LEVELS OF WATER HARDNESS WITH ALTERNATING FREQUENCY IMPULSES SUSTAINABLE EFFICIENCY THRU NATURAL PHYSICS

CWT Vulcan is helping top corporations protect critical building infrastructure in facilities like CNS Pantex in Amarillo and first class hospitals like the UT MD Anderson Center in Houston. With a robust design engineered to last 30 years and a best in the market 10-year warranty Vulcan has the ability to effectively treat up to 60 grains of hardness with no scheduled maintenance. A non-invasive technology to protect pipes and equipment from limescale in an eco-friendly way, using alternating frequency impulses. We welcome you to join the hundreds of companies saving thousands of dollars around the globe, by eliminating obsolete softening equipment, service contracts and recurrent salt purchases. Models for any pipe size and flow rate up to 40 inches in diameter. A green solution for easier and better water management.

Objectives your company can accomplish with CWT Vulcan:

- Hard water management processes automation. 100% saltless and maintenance free.
- Operational savings by eliminating service contracts and recurrent salt purchases.
- Quick payback. Long-term asset life.
- Treat hard water in an economical and non-polluting way. (Fact: The salt put into every commercial water softener ends up being discharged in rivers by the city WWTP).

Advantages. Upgrading to a better and natural technology:

- Simple, automatic and sustainable. Treat hard water physically instead of chemically.
- Enjoy safe and naturally tasting, sodium free tap water.
- Less than \$20 per year Total Cost to Operate (Low voltage electricity).
- No floor space required. Recover valuable floor space. Unit mounts on pipe.
- Safer and cleaner kitchen floors. Higher oil solubility than de-mineralized salty water.
- Efficient boiler, dishwashing, and ice maker operation. Limescale free water fixtures.
- Lower acquisition cost. Equipment lasts 3 times longer than conventional softeners.
- Simple and non-invasive typical installation. No pipe cutting or water main shut off.
- Elimination of recurrent salt purchases, softener maintenance, and service charges.
- Free flowing grease traps, less grease clots and foul odors. Easier grease extraction.
- ROI in 15 months or less from operational savings.



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Vulcan hard water treatment protecting the eight inch main pipe and five boiler water loops at the CNS Pantex Main Building in Panhandle, TX

Pictures provided by CNS Pantex

Installation by Techno Mechanical Solutions, LLC

CNS Pantex is the primary nuclear weapons assembly and disassembly facility that aims to maintain the safety, security and reliability of the U.S. nuclear weapons stockpile.¹ The plant is managed and operated for the United States Department of Energy by Consolidated Nuclear Security and Sandia National Laboratories.



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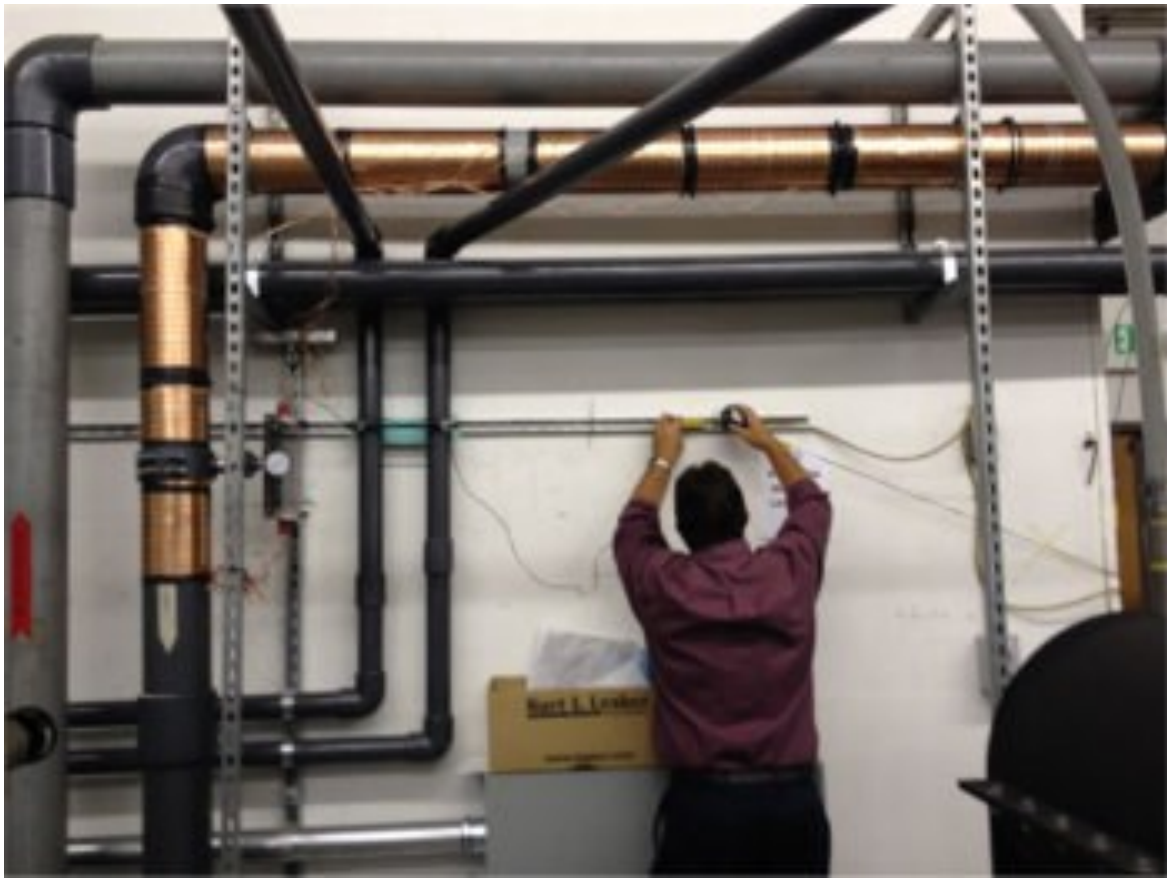




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The **University of Texas MD Anderson Cancer Center** is one of the world’s most respected centers devoted exclusively to cancer patient care, research, education and prevention.



Vulcan hard water treatment protecting the main water supply pipe at the University of Texas MD Anderson Center in Houston, TX. Picture provided by UT



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Since 1957 **Comet Cleaners** have been heavily involved in advancements and innovations in the laundry industry. With over 160 locations in the US and Mexico, Comet relies on new advancements in dry cleaning techniques and technology to stay in the forefront of the industry by providing better quality and faster service.

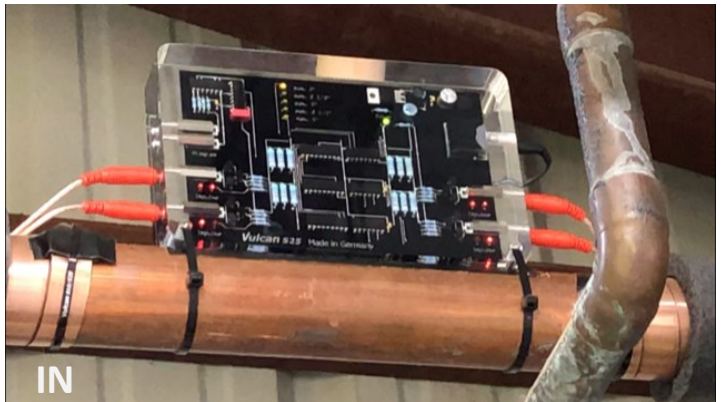


Vulcan Installation by Techno Mechanical Solutions, LLC

About the softener eliminated:

- Dimensions 8'L x 5D' x 9H' (360 cu. ft. recovered).
- Backflushing wasted 30% of the facility water bill.
- Tons of salt were wasted every month.

8 feet ladder in picture provides height reference



After recurring problems and expenses with their salt softener, **Comet Cleaners** main facility in San Antonio, Texas upgraded to a better way of keeping their commercial steam boiler clean in an automated way. 360 cubic feet of precious floor space were recovered. The need for backflushing was eliminated saving hundreds of gallons of water each month. The need to buy salt was also eliminated.



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Established in 1977 **Texas Heat Treating Inc.** is an industry leader in atmosphere heat treating servicing critical infrastructure sectors including Aerospace, Defense, Industrial, Energy, Chemical and Transportation throughout the southwestern United States and Mexico. **THT Inc.** growth and success are made possible by excellence in quality and service, and a continued investment in modern technology.



Installation by Techno Mechanical Solutions, LLC

Texas Heat Treating Inc. located in Round Rock Texas was able to improve the cleanliness of their cooling tower and heat exchanger loop without using chemicals. Operational advantages were attained in efficiency and manual labor. Water clarity and odor was noticeably improved one week after Vulcan was put into service. Cooling efficiency is critical for securing safe boiler operations.



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Main Stay Suites Hotel located in Midland Texas offers spacious accommodations for travelers to relax while visiting the largest oil production region in the country. The facility offers 95 kitchen equipped rooms, wi-fi, laundry, a sundry shop, an onsite exercise room, an outdoor pool and freshly prepared breakfast.



A Vulcan was installed to protect all equipment fed by the main supply pipe and a secondary unit was provided for the hot water loop.



Vulcan Installation by Techno Mechanical Solutions, LLC

Midland has the highest water hardness levels in the State of Texas at 512 ppm. Equivalent to 30 grains, an extreme value by USGS standards. **Main Stays Suites** upgraded their old salt water softener to Vulcan technology for operational savings, process simplification and space saving reasons.



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